



Aspire | Achieve | Thrive

Revision List Year 10

June 2024

Top 10 tips to support your child with revision

- **Being a role model** - Help support them with revision by asking them questions, reading their notes and listening to them
- **Help them set goals** - Encourage them to keep their goals planner visible – e.g. printed and displayed on their bedroom wall. Help focus them and talk to them about their goals regularly
- **Keep them active** - Encourage them to keep active on a daily basis
- **Healthy eating** - Encourage them to eat breakfast everyday Eating the right food and drink can energise your system, improve alertness and sustain your child through the long exams
- **Time out** - Encourage them to build in opportunities to take some time out every week, away from study
- **Sleep patterns** - Young people need between 8 – 9 hours sleep per night
- **Unplugging** - Encourage them to unplug from technology everyday. Help them switch off from technology at least 30 mins- 1 hr before going to sleep
- **Staying cool & calm** - Promote a balance of their academic studies & other activities during the week
- **Belief** - Give them positive reinforcement
- **Be supportive**

English

Type of assessment

Mock exams: English Language Paper 1, English Language Paper 2,
English Literature Paper 1

Length of assessment

1 hour and 45 minutes x 3

- I can recall the plot of Macbeth.
- I can recall the themes in Macbeth.
- I can recall key quotations in Macbeth.
- I can recall key characters in Macbeth.
- I can recall the key context of Macbeth.
- I can recall the plot of A Christmas Carol.
- I can recall the themes in A Christmas Carol.
- I can recall key quotations in A Christmas Carol.
- I can recall key characters in A Christmas Carol.
- I can recall the key context of A Christmas Carol.
- I can recall the skills required for the language papers
- I can memorise my exam-ready story and apply it to different images.

Maths FOUNDATION

Type of assessment

Full GCSE Exam Series (P1 Non Calc, P2 Calc, P3 Calc)

Length of assessment

3 x 90 minute papers

- Ordering positive integers
- Ordering decimals
- Ordering negative numbers
- Adding and subtracting positive integers
- Multiplying and dividing positive integers
- Adding and subtracting negative numbers
- Multiplying and dividing negative numbers
- Adding and subtracting decimals
- Multiplying and dividing with place value
- Multiplying and dividing with decimals
- Order of operations
- Prime numbers, prime factorisation
- Factors, multiples, HCF and LCM
- Powers and roots
- Using standard form
- Calculating with standard form
- Equivalent fractions and simplifying fractions
- Mixed numbers and improper fractions
- Ordering fractions

- Addition and subtraction of fractions
- Multiplication and division of fractions
- Converting and ordering fractions, decimals and percentages
- Fractions of amounts
- Percentages of amounts
- Percentage change
- Reverse percentages
- Simple interest
- Rounding
- Rounding to significant figures
- Estimating answers
- Value for money
- Algebraic expressions
- Collecting like terms
- Substitution
- Expanding brackets
- Factorising expressions
- Index laws
- Changing the subject
- Coordinates
- Midpoints
- Plotting straight line graphs
- Equations of straight line graphs
- Parallel lines
- Distance-time graphs
- Quadratic graphs

- Linear equations
- Quadratic expressions and equations
- Linear sequences
- Other sequences
- Simplifying ratios
- Sharing amounts in a ratio
- Converting between ratios, fractions and percentages
- Direct proportion
- Inverse proportion
- Proportion graphs
- Units of measure: Length, Mass and Capacity
- Units of measure: Time
- Units of measure: Area
- Currency conversion
- Conversion graphs
- Compound units: Speed
- Properties of 2D shapes
- Properties of 3D shapes
- Nets of 3D shapes
- Angles: Measuring, Drawing and Estimating
- Angle on a line and about a point
- Vertically opposite angles
- Angles on parallel lines
- Angles in a triangle
- Combining angle facts
- Angles in a quadrilateral
- Angles in polygons

- Bearings
- Translations
- Reflections
- Enlargements
- Rotations
- Congruence
- Area and perimeter of simple shapes
- Area of triangles, parallelograms and trapeziums
- Circles
- Circumference
- Circle area
- Surface area
- Volume of cuboids
- Volume of prisms and cylinders
- Similar shapes
- Scale diagrams
- Probability of single events
- Experimental probability
- Expected outcomes
- Listing elements in a set
- Probability from Venn diagrams
- Frequency trees
- Sample space diagrams
- Tree diagrams
- Collecting data, frequency tables
- Two-way tables
- Bar charts

- Pictograms
- Pie charts
- Stem and leaf diagrams
- Mode
- Mean
- Median
- Range
- Choosing averages
- Scatter graphs
- Probability scale

Maths HIGHER

Type of assessment

Full GCSE Exam Series (P1 Non Calc, P2 Calc, P3 Calc)

Length of assessment

3 x 90 minute papers

- Calculating with roots and fractional indices
- Converting recurring decimals to fractions
- Surds
- Rationalising the denominator
- Error intervals
- Expanding triple brackets
- Operations with algebraic fractions
- Factorising quadratic expressions: ax^2+bx+c
- Simplifying algebraic fractions
- Factorising to solve quadratics equations
- Using the quadratic formula
- Completing the square to solve quadratics
- Quadratic equations in context
- Quadratic simultaneous equations
- Index laws
- Equation of a straight line: Perpendicular lines
- Quadratic graphs: Turning points
- Quadratic simultaneous equations on graphs
- Exponential graphs

- Exponential growth and decay problems
- Trigonometric graphs
- Graph transformations
- Velocity-time graphs
- Rate of change graphs
- Estimating gradient from a curve
- Estimating area under a curve
- Equation of a circles and tangents
- Linear inequalities as graph regions
- Quadratic inequalities
- Functions
- Recurrence relations
- Quadratic sequences
- Iteration and numerical methods
- Algebraic proof
- Algebraic direct and inverse proportion
- Compound units: Density problem solving
- Congruence proofs
- Enlargements
- Describe combined transformations
- Circle theorems: Angles inside a circle
- Circle theorems: Tangents and chords
- Circle theorems problems
- Prove circle theorems
- Volume of frustums
- Volume: Problem solving
- Similar Shapes: Area and volume

- Pythagoras' Theorem in 2D and 3D
- Right-angled trigonometry: Problem solving
- 3D trigonometry
- The area rule
- Sine rule
- Cosine rule
- Trigonometry and bearings
- Vectors problems
- Product rule for counting
- Conditional probability
- Probability from Venn diagrams
- Averages
- Cumulative frequency diagrams
- Box plots
- Frequency polygons
- Histograms
- Capture-recapture

Science COMBINED

Type of assessment

Mock paper 1 - one for biology, chemistry and physics

Length of assessment

1 hour 15 minutes each

- Biology: Cells, organs and tissues
- Biology: Cell transport
- Biology: Communicable and non-communicable diseases
- Biology: Body systems - digestive system
- Biology: Body systems - circulatory system
- Biology: Enzymes
- Biology: Respiration (aerobic and anaerobic)
- Biology: Photosynthesis
- Chemistry: Atomic structure
- Chemistry: Periodic table and its history
- Chemistry: Properties of group 1, 0 and 7 elements
- Chemistry: Ionic bonding and ionic properties
- Chemistry: Covalent bonding and covalent properties
- Chemistry: Metallic bonding and metallic properties
- Chemistry: Acids and alkalis
- Chemistry: Electrolysis
- Chemistry: Extracting metals
- Chemistry: Reactivity of metals
- Chemistry: Exothermic and endothermic reactions

- **Physics: Energy stores and transfers**
- **Physics: Energy resources (renewable and non-renewable)**
- **Physics: Electric circuits**
- **Physics: Resistance in circuits**
- **Physics: National grid and electricity in our homes**
- **Physics: Particle model of matter**
- **Physics: Atoms and isotopes**
- **Physics: Properties of radioactive substances**

Science Triple

Type of assessment

Mock paper 1 - one for biology, chemistry and physics

Length of assessment

1 hour and 45 minutes per paper

- Biology: Cells, organs and tissues
- Biology: Cell transport
- Biology: Communicable and non-communicable diseases
- Biology: Body systems - digestive system
- Biology: Body systems - circulatory system
- Biology: Enzymes
- Biology: Respiration (aerobic and anaerobic)
- Biology: Photosynthesis
- Biology: Monoclonal antibodies
- Chemistry: Atomic structure
- Chemistry: Transition metals
- Chemistry: Nanoparticles and bulk materials
- Chemistry: Relative atomic mass, moles, yield and concentration
- Chemistry: Periodic table and its history
- Chemistry: Fuel cells
- Chemistry: Properties of group 1, 0 and 7 elements
- Chemistry: Ionic bonding and ionic properties
- Chemistry: Covalent bonding and covalent properties
- Chemistry: Metallic bonding and metallic properties

- Chemistry: Acids and alkalis
- Chemistry: Electrolysis
- Chemistry: Extracting metals
- Chemistry: Reactivity of metals
- Chemistry: Exothermic and endothermic reactions
- Physics: Energy stores and transfers
- Physics: Energy resources (renewable and non-renewable)
- Physics: Electric circuits
- Physics: Resistance in circuits
- Physics: National grid and electricity in our homes
- Physics: Particle model of matter
- Physics: Atoms and isotopes
- Physics: Properties of radioactive substances
- Physics: Fission and Fusion
- Physics: Static electricity

History

Type of assessment

Paper 1 GCSE Edexcel

Length of assessment

90 minutes

- Nature and causes of crime from 1000-2000
- Local communities Law Enforcement - Tithings/ Hue and Cry / sheriff
- Role of the church - Sanctuary / Trial by Ordeal / Benefit of clergy
- Law Enforcement 1500-1700
- Development of the Police force 1700-1900
- Whitechapel

Geography

Type of assessment

MOCK Exam Paper 1 (Physical Geography)

Length of assessment

1 hour 30 minutes

- Tectonic Hazards
- Weather Hazards
- Climate Change
- Ecosystems
- Tropical Rainforests
- Cold Environments
- Coasts
- Rivers

French

Type of assessment

Mock reading, listening, writing and speaking papers

Length of assessment

3 papers in exam conditions (see mock timetable) + speaking in class

- Revise Y9 vocab (theme 1 - identity & culture: my family, what makes a good friend, what I do in my free time, celebrations)
- Theme 2 - My local area: where I live, what I can do in my region, discussing plans & the weather). Using 3 tenses.
- Theme 2 - Holiday & travel: where I usually go, my ideal holiday, booking a hotel, ordering in a restaurant, talking about travelling, holiday disasters). using 3 tenses
- Theme 3 - School: My school what I study, Comparing French & UK schools, opinions on school rules

Art

Type of assessment

Practical mock exams

Length of assessment

5 hours

- Artwork based on your current project

Computer Science

Type of assessment

MOCK Exam based on past-paper style questions (90 minutes)

Length of assessment

90 minutes

- I can describe the architecture of the CPU.
- I can describe the factors that affect the performance of a CPU
- I can describe what an embedded system is and identify examples of embedded systems.
- I can explain the need for Primary Storage (RAM, ROM, Virtual Memory) and describe its purpose.
- I can explain the need for Secondary Storage, recall the types of storage (Optical, Magnetic and Solid State) and describe characteristics of secondary storage
- I can understand the units of data storage and how to calculate data capacity requirements
- I can describe denary, binary and hexadecimal numbers and can convert between them. I can perform binary addition and binary shift calculations.
- I can describe how character sets are stored in computer systems as binary codes.
- I can describe how images are stored in computer systems and describe factors that affect the quality and size of digital images.
- I can describe how sound can be sampled and stored in digital form. I can explain the impact of sample rate, duration and bit depth on playback quality and the size of a sound file.

- I can describe the need for compression and explain the function of lossy and lossless compression techniques.
- I can describe the purpose and function of networks, including Local Area Networks (LAN) and Wide Area Networks (WAN). I can describe the function of Star and Mesh network topologies.
- I can explain the purpose and function of Wired and Wireless networks, the use of protocols and the concept of network layers.
- I can identify the threats posed to computer systems and the methods used to remove vulnerabilities.
- I can describe the purpose and function of operating systems.
- I can describe the purpose and function of Utility Software
- I can discuss the impacts of digital technology on wider society including Ethical, Legal, Cultural, Environmental and Privacy issues.
- I can describe relevant legislation in relation to Computer Science.

Drama

Type of assessment

Mock Comp 2 Assessment - Devising a unique short play from a stimulus

Length of assessment

Two lessons

- I can devise drama from stimulus
- I can prepare improvisation
- I can spontaneously improvise
- I can perform a range of different characters
- I can use drama techniques to enhance my performance
- I understand how semiotics impact performance
- I can work with a range of others
- I can work in a range of performance styles
- I can create script
- I can evaluate the work of self and others
- I can describe a range of genres
- I can discuss a range of staging formats
- I can show character through vocal acting skills
- I can show character through physical acting skills

Food tech/catering

Type of assessment

Full paper for Unit 1 (80 marks) Unit 2 = 3 hours of theory in lessons to come up with a dish and write a detailed timeplan and a 2 hour practical exam to prepare, cook and present the dish to restaurant standards

Length of assessment

90 minute theory exam 120 minute practical assessment

- Commercial and non-commercial establishments
- Residential and non-residential establishments
- Food service method
- Job roles, responsibilities and personal attributes of a receptionist
- Dress code for front of house staff
- Why people want environmentally and sustainable hotels
- Ways to make hotel rooms more environmentally sustainable
- Provisions for different customer needs
- Vegan and vegetarian options on a menu
- Large kitchen equipment and uses
- Accident forms
- Prevention of accidents in the future
- HACCP
- Food poisoning bacteria with visible and invisible symptoms
- Job responsibilities of the EHO
- Control points to prevent poor staff hygiene in a catering establishment

- To be able to follow a timeplan to prepare a dish
- To cook the dish correctly
- To wash and clean your area to a high standard
- To complete the special points in a timeplan

Modern Britain

Type of assessment

A mixture of short and extended writing questions. All based on a past GCSE paper that has been taught on two religions of Christianity practices, teachings and beliefs and religious views on Peace and Conflict.

Length of assessment

1 hour and 30 minutes

- I understand the key term of terrorism
- I understand the different religious organisations that help victims of war
- I can understand the difference between a protest and a violent protest
- I understand the importance of justice when talking about peace and conflict
- I can understand the Just War Theory
- I can understand the concept of a Holy War
- I can understand pacifism and pacifist
- I can understand the nature of God in Christianity
- I can understand the Trinity
- I understand the beliefs about the crucifixion
- I understand the beliefs about the afterlife and judgement
- I understand the beliefs about the creations
- I understand their are different views on the creations
- I understand the role of the holy book the Bible and how it is seen a literal by Christians

Music

Type of assessment

A mixture of short and extended questions based on a variety of Musical Genres through a listening based exam style assessment

Length of assessment

One lesson

- I can identify dynamics
- I can identify different tempo
- I can identify a range of instrumentation
- I can identify the structure and form
- I can use Italian musical terms
- I can identify a range of genres
- I can perform using an instrument of my choice
- I can rehearse and improve performance
- I can evaluate the work of self and others
- I can analyse the performances of influential artists
- I can compose music

HSC

Type of assessment

Component 3 practice exam, this will be of reduced length and will cover all of learning aim A and part of learning aim B

Length of assessment

1 hour

- Physical factors
- Lifestyle factors
- Social factors
- Cultural factors
- Economic factors
- Environmental factors
- Life Events
- Health Indicators
- BMI
- Resting heart rate and heart rate after recovery
- Blood pressure

Child Development

Type of assessment

Component 3 practice exam, this will be of reduced length and will cover all of learning aim A and part of learning aim B

Length of assessment

1 hour

- A1 Individual needs
- Physical needs
- Cognitive/intellectual needs
- Social and emotional needs
- Communication and language needs
- Know how individual needs may impact on play, learning and development
- Physical learning and development
- Cognitive and intellectual learning and development:
- Communication and language learning and development:
- Social and emotional learning and development:
- B1 Ensure all children are safe

Business

Type of assessment

Theme 1 Paper - includes extended writing questions and case studies

Length of assessment

1 hour 45 minutes

- Reward
- Market Share
- Unique Selling Point
- Trade Credit
- Secondary Market Research
- Variable Costs
- Net Cash Flow Calculation
- Partnership
- Marketing Mix / Consumer Needs
- Sole Trader
- % change in Calculation
- New Business Ideas
- Market Mapping
- Increased Competition
- Importance of Cash
- Social Media around business and customers
- Selling Price Calculation
- Profit Calculation
- Reducing Costs / Breaking Even

- Market Segment
- Increase in Value of Pound (Exchange Rates)
- Shop opening V E-commerce
- Stakeholder
- Business Plan
- Digital Payment System V Online Meetings
- Competing with Large Manufacturers

